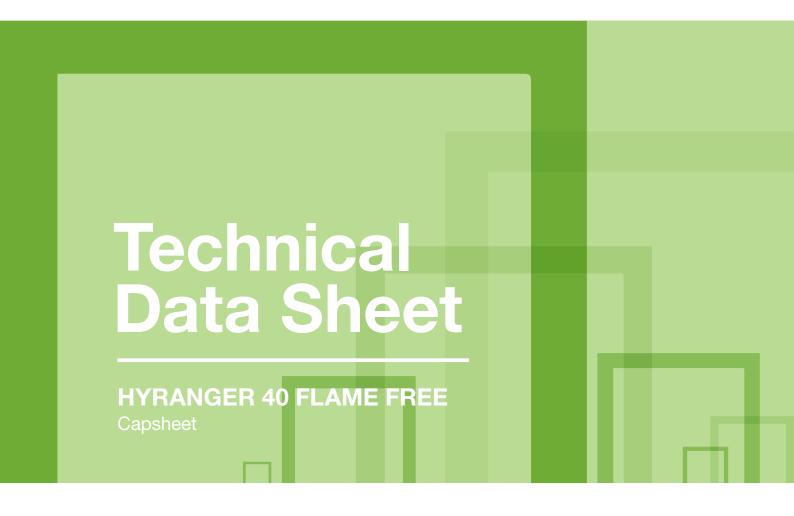
Bitumen Waterproofing



Description	Hyranger 40 Flame Free is a stabilised polyester reinforced SBS elastomeric modified bitumen waterproofing membrane. The membrane has a self protected charcoal mineral surface and a self adhesive under surface. Selvedge width is 8cm. Capsheet in Hyranger Neo-Bitumen® flame free warm roof, self adhesive, multilayer bitumen membrane roof waterproofing system.				
Use					
Application method	Fully bonded, with fully sealed joints, by flame free self adhesive hot air welding techniques, to form a continuous watertight layer.				
	The Hyranger flame free membrane must be laid loose and positioned prior to removal of the protective silicone release film from the underside of roll.				
	Simultaneously unroll the membrane and remove the protective silicone release film exposing the Neo-Bitumen® self adhesive surface and ensure full adhesion to the membrane/prepared surface below, using hot air activation/flame-free tooling as necessary.				
	A heavy metal roller should be used to remove any air bubbles and ensure full bonding is achieved.				
	Lap joints are secured using flame free self adhesive hot air tooling and a 2mm bead of bitumen should be visible along the selvedge.				
	At head laps mineral granules should be heated and removed using flame free hot air tooling techniques ensuring a black to black bond is achieved and a 2mm bead of bitumen is visible along the head lap.				
Storage	Rolls to be stored upright and away from heat.				

Composition (indicative)

Reinforcement (g/m²) :	Stabilised polyester reinforced with glass-fibre	180		
Binder:	SBS elastomer (self adhesive on under surface			
Surface finish :	Mineral chippings, with silicone film on selvedge			
Under surface finish :	Peel-off silicone film			

Characteristics		Standard(BS)	Units	Values	Tolerance	
					Min Max	
Dimensions	Length		m	8	-1% MLV	
	Width		m	1	-1% MLV	
	Straightness	EN 1848-1	-	20mm x 10m	Pass	
	Nominal roll weight		kg	35		
	Thickness (selvedge)		mm	3.50	±0.2	
Visible defects		EN 1850-1	-	None		
Adhesion of granules		EN 12039	%	30	MDV	
Resistance to tearing (nail shank)	Longitudinal	EN 10010 1	N	190	-30%	
	Cross direction	EN 12310-1		190		
Tensile properties: maximum tensile strength	Longitudinal	EN 12311-1	N/50 mm	900	±20%	
	Cross direction			650		
Tensile properties : elongation at break	Longitudinal	EN 12311-1	%	40	-15 absolute	
	Cross direction	EN 12311-1		45		
Flexibility at low temperature		EN 1109	°C	-25	MLV	
Flow resistance at elevated temperature	New product	EN 1110	°C	100	MLV	
	After ageing to EN 1296		C	-15	+15	
Dimensional stability	Longitudinal	EN 1107-1 A	%	.0.2	MLV	
	Cross direction	EN HU/-IA		±0.3		
Self Adhesion Properties		ASTM D 1000	N/10mm	20	-5	
Water vapour transmission properties		EN 1931	Sd/m	170	±60	

Characteristics	Standard(BS)	Units	Values	Tolerance	
				Min	Max
Watertightness (A)	EN 1928	kPa	60	MLV	
Reaction to fire	EN 13501-1	-	PND		

PND=Performance not determined. MDV=Manufacturer Declared Value. MLV=Manufacturer Limiting Value.

The manufacturer reserves the right to modify, at any time, the characteristics of this product.